

INTERNATIONAL SEARCH REPORT

Int lonal Application No
P... BR2004/000234

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F25B39/02 F25B5/02 F25D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F25D F25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US R E37 630 E1 (BEHR JOHN A) 9 April 2002 (2002-04-09) column 2, line 36 - column 3, line 8; figures 5,6,12,13 column 5, lines 13-56 column 6, line 65 - column 7, line 67 column 11, lines 17-65 | 1,2 |
| X | US 3 094 164 A (SHERMAN BURTON R ET AL) 18 June 1963 (1963-06-18) column 3, lines 46-75; figures 1,2 | 1 |
| X | US 2002/083727 A1 (KOIKE YASUhide ET AL) 4 July 2002 (2002-07-04) paragraphs '0003! - '0005!, '0024!, '0025!; figures 1,3,4 | 1 |
| | -/- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Léandre, A

INTERNATIONAL SEARCH REPORT

In International Application No
F... R2004/000234

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | EP 0 541 324 A (GENERAL ELECTRIC COMPANY) 12 May 1993 (1993-05-12) column 1, line 41 - column 2, line 44 figure 1 | 1 |
| X | US 5 749 238 A (SCHMIDT ET AL) 12 May 1998 (1998-05-12) the whole document | 1 |
| A | WO 91/08427 A (SUPER S.E.E.R. SYSTEMS INC) 13 June 1991 (1991-06-13) page 2, line 32 - page 3, line 29; figure 1 | 1,2 |
| A | US 2 150 699 A (PHILIPP LAWRENCE A) 14 March 1939 (1939-03-14) page 3, column 1, line 42 - column 2, line 19; figures 1,7 page 4, column 1, lines 46-74 | 1 |
| A | GB 1 394 342 A (LEC REFRIGERATION LTD; COWN E A) 14 May 1975 (1975-05-14) the whole document | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Application No

PCT/BR2004/000234

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|----------------------------|
| US RE37630 | E1 | 09-04-2002 | US 5743098 A 28-04-1998 |
| | | AU 692698 B2 11-06-1998 | |
| | | AU 5285996 A 08-10-1996 | |
| | | AU 697909 B2 22-10-1998 | |
| | | AU 6075798 A 04-06-1998 | |
| | | BR 9605934 A 29-12-1998 | |
| | | CA 2189633 A1 26-09-1996 | |
| | | EP 1434018 A2 30-06-2004 | |
| | | EP 0765456 A2 02-04-1997 | |
| | | WO 9629555 A2 26-09-1996 | |
| | | NZ 304969 A 28-07-1998 | |
| | | NZ 330257 A 28-07-1998 | |
| US 3094164 | A | 18-06-1963 | NONE |
| US 2002083727 | A1 | 04-07-2002 | JP 3610005 B2 12-01-2005 |
| | | | JP 2002168549 A 14-06-2002 |
| EP 0541324 | A | 12-05-1993 | CA 2080219 A1 05-05-1993 |
| | | | EP 0541324 A1 12-05-1993 |
| | | | JP 5223368 A 31-08-1993 |
| US 5749238 | A | 12-05-1998 | DE 4430468 A1 29-02-1996 |
| | | | AU 2976695 A 22-03-1996 |
| | | | DE 69507491 D1 04-03-1999 |
| | | | WO 9607065 A1 07-03-1996 |
| | | | EP 0776449 A1 04-06-1997 |
| WO 9108427 | A | 13-06-1991 | CA 2004220 A1 29-05-1991 |
| | | | AU 6747290 A 26-06-1991 |
| | | | AU 6748890 A 26-06-1991 |
| | | | WO 9108427 A1 13-06-1991 |
| | | | WO 9108428 A1 13-06-1991 |
| | | | DE 69007117 D1 07-04-1994 |
| | | | EP 0502883 A1 16-09-1992 |
| | | | IE 904298 A1 05-06-1991 |
| | | | MX 173745 B 25-03-1994 |
| US 2150699 | A | 14-03-1939 | NONE |
| GB 1394342 | A | 14-05-1975 | NONE |